# LILY JO FACTORA



thttps://lilyfactora.github.io/Website/ lilyjofactora@gmail.com line LinkedIn GitHub



#### Technical Skills

Languages: SageMath, Python, R, C++, HTML, CSS.

**Personal Projects:** Personal website. **Developer Tools:** VSCode, CoCalc.

# Work Experience

#### **Archives Work Study Assistant**

Portland, OR

Portland Art Museum

October 2023 - Present

Prepares and organizes Museum Archives for relocation, safeguarding valuable historical materials and enhancing accessibility for future researchers through cataloging and documentation.

# Research Assistant on the h-vector conjecture for graphic matroids

Portland, OR

Reed College Mathematics & Statistics Department

Summer 2023

- Collaborated with other research assistants to investigate the h-vector conjecture, a well-known problem in matroid theory, a subfield of math at the intersection of combinatorics and graph theory.
- Designed and executed a series of experiments and computational simulations to test conjectures and hypotheses, contributing to the ongoing efforts to solve the problem.
- Gained proficiency in relevant software tools and programming languages to facilitate research tasks.
- Created a well-organized <u>research poster</u> summarizing project findings and procedures, presented at a summer research showcase to effectively convey complex mathematical concepts to a diverse audience.

Concierge Burbank, CA

Castaway Restaurant

Summer 2022

Demonstrated outstanding customer service with active listening, strong interpersonal skills, and efficiently managed seating using computer software and effective task prioritization.

#### Warehouse Inventory Specialist

Los Angeles, CA

Gregory Daniels Fine Arts

Summers of 2018-2021

Oversaw cleanliness and organization of work areas while managing inventory to maintain accurate records. Handled digital order processing and troubleshooted shipping/receiving issues.

Volunteer

Tsaile, AZ; San Diego, CA

Sierra Service Project

Summers of 2017-2020

Completed community-based projects to make homes accessible to historically underserved residents.

### Education

Reed College

Portland, OR

BA in Mathematics/Computer Science

Graduation: May 2025

Activities: Asian American and Pacific Islander Student Union (Board Member), Photography Club

#### **Relevant Coursework:**

Mathematics: Introduction to Probability and Statistics, Calculus, Introduction to Analysis, Discrete Structures, Linear Algebra, Vector Calculus

Computer Science: Computer Science I (Python), Computer Science II (C/C++), Algorithms and Data Structures